



CENTRAL COAST WATER AUTHORITY POLONIO PASS WATER TREATMENT PLANT WATER QUALITY TABLE

COVERING THE REPORTING PERIOD OF JANUARY-DECEMBER 2016

Please see last page for key to abbreviations.

Parameter	Units	State MCL	PHG (MCLG)	State DLR	Range Average	TREATED	SOURCE	Major Sources in Drinking Water
						CCWA	STATE WATER	

PRIMARY STANDARDS--Mandatory Health-Related Standards

CLARITY (a)

Combined Filter Effluent Turbidity (a)	NTU	TT=<1 NTU every 4 hours TT=95% of samples <0.3 NTU	Range	0.03 - 0.11	NA	Soil runoff
			%	100%	NA	

INORGANIC CHEMICALS

Aluminum	ppm	1 (b)	0.6	0.05	Range	ND - 0.082	ND - 0.25	Residue from water treatment process; erosion of natural deposits
					Average	0.060	0.110	
Arsenic, Total	ppb	10	0.004	2	Range	ND	2.0	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
					Average	ND	2.0	
Fluoride	ppm	2.0	1	0.1	Range	ND	0.12	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
					Average	ND	0.12	
Nitrate as Nitrogen	ppm	10 (h)	10	0.4	Range	0.41	0.43	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
					Average	0.41	0.43	

RADIONUCLIDES

Gross Beta Particle	pCi/L	50	(0)	4	Range	ND	5.7	Decay of natural and man-made deposits
					Average	ND	5.7	

DISTRIBUTION SYSTEM MONITORING

Total Chlorine Residual	ppm	MRDL = 4.0	MRDLG = 4.0	NA	Range	1.9 - 2.7	NA	Measurement of the disinfectant used in the production of drinking water
					Average	2.3	NA	
Total Coliform Bacteria (c)	--	5.0% of monthly samples	(0)	--	Range	0 - 2.5%	NA	Naturally present in the environment
					Average	0.4%	NA	
					Highest	2.5%	NA	
Total Trihalomethanes (d)	ppb	80	NA	NA	Range	31 - 60	NA	By-product of drinking water chlorination
					Average	48	NA	
					Highest LRAA	61.0	NA	
Haloacetic Acids (d)	ppb	60	NA	(e)	Range	4.1 - 14	NA	By-product of drinking water chlorination
					Average	8.1	NA	
					Highest LRAA	11.8	NA	

SECONDARY STANDARDS--Aesthetic Standards

Chloride	ppm	500	NA	NA	Range	41 - 138	11 - 136	Runoff/leaching from natural deposits; seawater influence
					Average	97	94	
Color	ACU	15	NA	NA	Range	ND	25	Naturally occurring organic materials
					Average	ND	25	
Corrosivity (Aggressivity Index)	None	non-corrosive	NA	NA	Range	non-corrosive	non-corrosive	Balance of hydrogen, carbon, & oxygen in water, affected by temperature & other factors
					Average	non-corrosive	non-corrosive	
Odor Threshold	TON	3	NA	1	Range	ND	ND - 2	Naturally occurring organic materials
					Average	ND	1.1	
Specific Conductance	uS/cm	1600	NA	NA	Range	374 - 757	326 - 700	Substances that form ions when in water; seawater influence
					Average	609	544	
Sulfate	ppm	500	NA	NA	Range	100	71	Runoff/leaching from natural deposits; industrial wastes
					Average	100	71	
Total Dissolved Solids (TDS)	ppm	1000	NA	NA	Range	194 - 442	170 - 392	Runoff/leaching from natural deposits;
					Average	346	312	
Turbidity (Monthly) (a)	NTU	5	NA	NA	Range	0.03 - 0.13	0.34 - 44	Soil runoff
					Average	0.06	2.80	

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ADDITIONAL PARAMETERS (Unregulated)								
Alkalinity (Total) as CaCO ₃ equivalents	ppm	NA	NA	NA	Range	42 - 84	46 - 98	Runoff/leaching from natural deposits; seawater influence
					Average	66	74	
Calcium	ppm	NA	NA	NA	Range	30 - 82	30 - 74	Runoff/leaching from natural deposits; seawater influence
					Average	53	53	
Geosmin	ng/L	NA	NA	NA	Range	ND - 2	ND - 30	
					Average	1	3	
Hardness (Total) as CaCO ₃	ppm	NA	NA	NA	Range	64 - 162	62 - 166	Leaching from natural deposits
					Average	115	115	
Heterotrophic Plate Count (f)	CFU/mL	TT	NA	NA	Range	0 - 2	NA	Naturally present in the environment
					Average	0.4	NA	
Magnesium	ppm	NA	NA	NA	Range	17	16	Runoff/leaching from natural deposits; seawater influence
					Average	17	16	
Manganese, Total	ppb	NA	NA	NA	Range	ND	15	Runoff/leaching from natural deposits; seawater influence
					Average	ND	15	
2-Methylisoborneol	ng/L	NA	NA	NA	Range	ND - 9	ND - 11	
					Average	4	4	
pH	pH Units	NA	NA	NA	Range	8.0 - 8.5	7.6 - 9.4	Runoff/leaching from natural deposits; seawater influence
					Average	8.3	8.6	
Potassium	ppm	NA	NA	NA	Range	4.0	3.9	Runoff/leaching from natural deposits; seawater influence
					Average	4.0	3.9	
Sodium	ppm	NA	NA	NA	Range	87	75	Runoff/leaching from natural deposits; seawater influence
					Average	87	75	
Total Organic Carbon (TOC) (g)	ppm	TT	NA	0.30	Range	1.5 - 3.5	2.8 - 6.5	Various natural and man made sources
					Average	2.3	4.0	

ABBREVIATIONS AND NOTES

Footnotes:

- (a) Turbidity (NTU) is a measure of the cloudiness of the water and it is a good indicator of the effectiveness of our filtration system. Monthly turbidity values are listed in the Secondary Standards section.
- (b) Aluminum has a Secondary MCL of 0.2 ppm.
- (c) Total coliform MCLs: Systems that collect ≥40 samples/month no more than 5.0% of the monthly samples may be Total Coliform positive. Systems that collect <40 samples per month no more than 1 positive sample per month may be Total Coliform positive.
Fecal coliform/E. coli MCLs: The occurrence of 2 consecutive Total Coliform positive samples, one of which contains fecal coliform/E. coli, constitutes an acute MCL violation.
- (d) Compliance based on the running quarterly annual average of distribution system samples.
- (e) Monochloroacetic Acid (MCAA) has a DLR of 2.0 ug/L while the other four Haloacetic Acids have DLR's of 1.0 ug/L.
- (f) Pour plate technique
- (g) TOCs are taken at the treatment plant's combined filter effluent.
- (h) State MCL is 45 mg/L as NO₃, which equals 10 mg/L as N.

Abbreviations

ACU = Apparent Color Units
 CCWA = Central Coast Water Authority
 CFU/ml = Colony Forming Units per milliliter
 DLR = Detection Level for purposes of Reporting
 MCL = Maximum Contaminant Level
 MCLG = Maximum Contaminant Level Goal
 MRDL = Maximum Residual Disinfectant Level
 MRDLG = Maximum Residual Disinfectant Level Goal
 NA = Not Applicable
 NTU = Nephelometric Turbidity Units
 pCi/L = PicoCuries per liter
 PHG = Public Health Goal
 ppb = parts per billion, or micrograms per liter (µg/L)
 ppm = parts per million, or milligrams per liter (mg/L)
 TON = Threshold Odor Number
 TT = Treatment Technique
 LRAA = Locational Running Annual Average